

Product Name: Rhodopsin (phospho Ser334) Rabbit Polyclonal Antibody Catalog #: APRab05370

For research use only.

Summary

Description Rabbit polyclonal Antibody

Host Rabbit

ApplicationIHC,ICC/IF,ELISAReactivityHuman,Mouse,RatConjugationUnconjugatedModificationPhosphorylated

Isotype IgG

Clonality Polyclonal
Form Liquid
Concentration 1mg/ml

Storage Aliquot and store at -20°C (valid for 12 months). Avoid freeze/thaw cycles.

Shipping Ice bags

Liquid in PBS containing 50% glycerol, 0.5% protective protein and 0.02% New type **Buffer**

preservative N.

Purification Affinity purification

Application

Dilution Ratio IHC 1:100-1:300,ICC/IF 1:50-1:200,ELISA 1:5000-1:20000

Molecular Weight

Antigen Information

Gene Name RHO

Alternative Names RHO; OPN2; Rhodopsin; Opsin-2

 Gene ID
 6010.0

 SwissProt ID
 P08100

The antiserum was produced against synthesized peptide derived from human Rhodopsin Immunogen

around the phosphorylation site of Ser334. AA range:299-348

Background

Retinitis pigmentosa is an inherited progressive disease which is a major cause of blindness in western communities. It can be

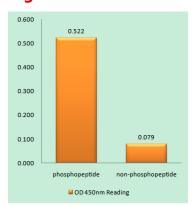


inherited as an autosomal dominant, autosomal recessive, or X-linked recessive disorder. In the autosomal dominant form, which comprises about 25% of total cases, approximately 30% of families have mutations in the gene encoding the rod photoreceptor-specific protein rhodopsin. This is the transmembrane protein which, when photoexcited, initiates the visual transduction cascade. Defects in this gene are also one of the causes of congenital stationary night blindness. [provided by RefSeg, Jul 2008], disease: Defects in RHO are a cause of retinitis pigmentosa autosomal recessive (ARRP) [MIM:268000], disease: Defects in RHO are the cause of congenital stationary night blindness autosomal dominant type 1 (CSNBAD1) [MIM:610445]; also known as rhodopsin-related congenital stationary night blindness. Congenital stationary night blindness is a non-progressive retinal disorder characterized by impaired night vision., disease: Defects in RHO are the cause of retinitis pigmentosa type 4 (RP4) [MIM:180380]. RP leads to degeneration of retinal photoreceptor cells. Patients typically have night vision blindness and loss of midperipheral visual field. As their condition progresses, they lose their far peripheral visual field and eventually central vision as well. RP4 inheritance is autosomal dominant.,function:Photoreceptor required for imageforming vision at low light intensity. Required for photoreceptor cell viability after birth. Light-induced isomerization of 11-cis to all-trans retinal triggers a conformational change leading to G-protein activation and release of all-trans retinal, online information:Retina International's Scientific Newsletter, online information:Rhodopsin entry, online information:Rhodopsin mutations page,PTM:Phosphorylated on some or all of the serine and threonine residues present in the C-terminal region., similarity: Belongs to the G-protein coupled receptor 1 family. Opsin subfamily., tissue specificity: Rod shaped photoreceptor cells which mediates vision in dim light.,

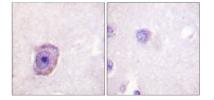
Research Area

Regulation of Microtubule Dynamics; Regulation of Actin Dynamics; SAPK JNK; B Cell Antigen

Image Data



Enzyme-Linked Immunosorbent Assay (Phospho-ELISA) for Immunogen Phosphopeptide (Phospho-left) and Non-Phosphopeptide (Phospho-right), using Rhodopsin (Phospho-Ser334) Antibody



Immunohistochemistry analysis of paraffin-embedded human brain, using Rhodopsin (Phospho-Ser334) Antibody. The picture on the right is blocked with the phospho peptide.

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